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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/692,457	10/20/2000	Takashi Ida	198803US2SRD	6204
22850	7590	03/18/2005	EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			LE, BRIAN Q	
			ART UNIT	PAPER NUMBER
			2623	

DATE MAILED: 03/18/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/692,457

Applicant(s)

IDA ET AL.

Examiner

Brian Q Le

Art Unit

2623

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 December 2004.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 4, 6, 7 and 18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 4, 6, 7 and 18 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12/06/2004 has been entered.

Response to Amendment and Arguments

2. Applicant's arguments with regard to claims 4, 6 and 7 have been fully considered, but are not considered persuasive because of the following reasons:

Regarding claim 4, the Applicant argues (page 10) that Sambonsugi does not teach an object extracting method that includes calculating a difference between an object region and a background which are in the **same frame is obtained (emphasis added)**. The Examiner respectfully disagrees. Sambonsugi clearly teaches the processing of difference between an object region and a background in the same frame (each frame) (FIG. 46, S11). The Applicant is urged to consider the figure carefully. According to the flow of the figure, the calculating a difference between an object region and a background processed from each frame and not different frames.

Thus, the rejections of all of the claims are maintained.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Art Unit: 2623

4. Claims 4, 6, 7, and 18 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The Examiner considered the support for the amendatory language (third embodiment and FIGS. 10-13C). Regarding claim 4, the indicated support by the Applicant does not clearly support the concept of “**provisional region** of an extraction object ... which exhibits a **largest difference between pixel values of the object of the frame and pixel values of the background of the same frame to generate initial shape data representing the provisional region**”. (Emphasis added). The Applicant is requested by the Examiner to clearly indicate (page and line number) the support for this amended limitation. Also to claim 18, Applicant need to show the support for the “calculating the largest difference between the average of the pixel values ... the provisional region”.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

6. Claims 4, 6-7, and 18 are rejected under 35 U.S.C. 102(e) as being anticipated by Sambonsugi U.S. Patent 6,335,985.

Art Unit: 2623

Regarding claim 4, Sambonsugi teaches a method for extracting an object from a frame having an object and a background, the method (abstract, last 3 lines; FIG. 1, element 2; FIG. 27, element 224) comprising:

Preparing a plurality of candidate regions of shape data (FIG. 8 and FIG. 47); and

Setting as a provisional region of an extraction object, one of the candidate regions which exhibits a largest difference (absolute difference) between pixel values of the object of the frame and pixel values of the background of the same frame to generate initial shape data representing the provisional region (FIG. 46, S 11 and S14 and column 43, lines 10-30); and

Matching a contour of the initial shape data to a contour of the extraction object by using current image data and the initial shape data (FIG. 48, S31-S36), the current image data obtained by capturing the extraction object.

Referring to claim 6, Sambonsugi further teaches the method wherein setting comprises comparing the current image data with background image data acquired in advance without capturing the extraction object, and setting a region in which the current image data differs in value from the background image data as a provisional region of the extraction object (FIG. 47, S14; FIG. 8; FIG. 13, FIG. 14A-B and FIG. 15).

For claim 7, Sambonsugi teaches the method wherein the setting comprises, holding image data of a frame from which a region of the extraction object has already been obtained and shape data as reference image data and reference shape data, respectively, performing motion detection with respect to the current input image data corresponding to the first image data by referring to the reference image data, and performing motion compensation for the reference

Art Unit: 2623

shape data on the basis of the motion detection result to generate the initial shape data (FIG. 5; FIG. 6 and FIG. 47).

Referring to claim 18, Sambonsugi also discloses the method wherein the setting includes calculating an average of the pixel values of the object and an average of the pixel values of the background, calculating a largest difference between the average of the pixel values of the object and the average of the pixel values of the background, and setting one of the candidate regions which exhibits the largest difference as the provisional region (column 29, lines 1-11).

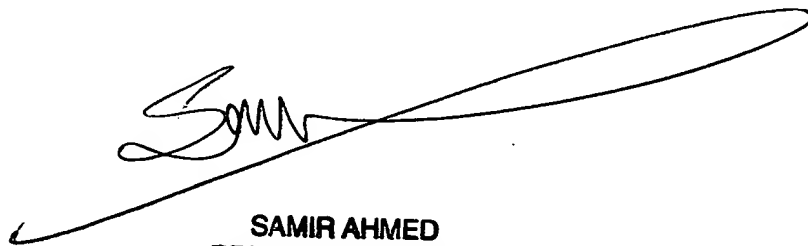
Contact Information

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian Q Le whose telephone number is 703-305-5083. The examiner can normally be reached on 8:30 A.M - 5:30 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amelia Au can be reached on 703-308-6604. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9306 for regular communications and 703-872-9306 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

BL
March 10, 2005



**SAMIR AHMED
PRIMARY EXAMINER**